

Title (en)  
DIRECT TRIFLUOROMETHYLATIONS USING TRIFLUOROMETHANE

Title (de)  
DIREKTE TRIFLUORMETHYLIERUNGEN MITHILFE VON TRIFLUORMETHAN

Title (fr)  
TRIFLUOROMÉTHYLATIONS DIRECTES À L'AIDE DE TRIFLUOROMÉTHANE

Publication  
**EP 2712367 B1 20180926 (EN)**

Application  
**EP 12776629 A 20120419**

Priority  
• US 201161480092 P 20110428  
• US 2012034228 W 20120419

Abstract (en)  
[origin: WO2012148772A1] A direct trifluoromethylation method preferably using a trifluoromethane as a fluoromethylating species. In particular, the present method is used for preparing a trifluoromethylated substrate by reacting a fluoromethylatable substrate with a trifluoromethylating agent in the presence of an alkoxide or metal salt of silazane under conditions sufficient to trifluoromethylate the substrate; wherein the fluoromethylatable substrate includes chlorosilanes, carbonyl compounds such as esters, aryl halides, aldehydes, ketones, chalcones, alkyl formates, alkyl halides, aryl halides, alkyl borates, carbon dioxide or sulfur.

IPC 8 full level  
**C07B 39/00** (2006.01); **C07C 17/269** (2006.01); **C07C 17/32** (2006.01); **C07C 29/40** (2006.01); **C07C 29/62** (2006.01); **C07C 29/72** (2006.01); **C07C 41/01** (2006.01); **C07C 41/30** (2006.01); **C07C 41/50** (2006.01); **C07C 45/45** (2006.01); **C07C 201/12** (2006.01); **C07C 303/16** (2006.01); **C07D 213/26** (2006.01); **C07D 307/42** (2006.01); **C07D 307/44** (2006.01); **C07F 7/08** (2006.01)

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Citation (examination)  
BENOÎT FOLLÉAS ET AL: "Fluoroform: an Efficient Precursor for the Trifluoromethylation of Aldehydes", TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 56, no. 2, 7 January 2000 (2000-01-07), pages 275 - 283, XP002652902, ISSN: 0040-4020, [retrieved on 20000202], DOI: 10.1016/S0040-4020(99)00951-5

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